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Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative

Snow Surveys and Water Supply Forecasts, NOV 9

for

NOV 9 1956

CURVE IT SERIAL RECORD

U. S. DEPARTMENT OF AGRICULTURE

Colorado River, Rio Grande, Platte River and Arkansas River Drainage Basins

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

AND

COLORADO AGRICULTURAL EXPERIMENT STATION

AND

STATE ENGINEER OF NEW MEXICO

AS OF

MAR. 1, 1956

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNCW SURVEY AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its cooperators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section Soil Conservation Service 209 S. W. 5th Avenue Portland 4, Oregon

BASIN REPORTS:

	Colorado, Rio Grande, and Platte-Arkansas River Basins	Issued monthly February through May by SCS and Colorado Experiment Station, Fort Collins, Colorado.*
	Columbia River Basin	Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*
	Upper Missouri River Basin	Issued monthly February through May by SCS and Montana Agricultural Experiment Station, Bozeman, Montana.*
		Issued April 1 by Soil Conservation Service and Cooperators, Portland, Oregon.
Τ	ATE REPORTS:	
	Arizona	Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix Arizona.*
	Nevada	Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*
	Oregon	Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*
	Utah	Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agri- cultural Experiment Station.*
	Washington	Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*
	Wyoming	Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*
		*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States' may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

for

COLORADO RIVER, PLATTE RIVER ARKANSAS RIVER AND RIO GRANDE DRAINAGE BASINS

Issued

March 8, 1956

Report Prepared By (1)
Homer J. Stockwell, Snow Survey Leader
Fort Collins, Colorado
Jack N. Washichek, Assistant Snow Survey Leader
Fort Collins, Colorado

Soil Conservation Service and Colorado Agricultural Experiment Station Fort Collins, Colorado and State Engineer of New Mexico Santa Fe, New Mexico

Issued By

Kenneth W. Chalmers S State Conservationist Soil Conservation Service

Sherman S. Wheeler, Director Colorado Agricultural Experiment Station

S. E. Reynolds
State Engineer
State of New Mexico

General Series Paper No. 633 Colorado Agricultural Experiment Station

(1) Snow Survey measurements in Wyoming, Utah, and Arizona are supplied by Snow Survey Leaders in these states.

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WATER SUPPLY OUTLOOK COLORADO RIVER, PLATTE RIVER ARKANSAS RIVER AND RIO GRANDE March 1, 1956

The water supply outlook for southern Wyoming and most of Colorado is much improved over the past two years with snow melt streamflow expected to be well above average except for the Rio Grande. Less than normal flow is in prospect for the Rio Grande in New Mexico. In Arizona snowfall has been light with snow melt streamflow forecast at less than 50 percent of normal.

Irrigation water supply outlook for most of Colorado continues to be much improved over the past two years as of March 1. In the northern mountains of the state, including the headwaters of the Platte, Upper Colorado and Yampa Rivers, the snow pack is 150 percent of normal. Measurements on most snow courses on these watersheds show a snow water content near a record high for this time of year. They are comparable to the recent high snow years of 1949 and 1952.

Unfortunately, this favorable water supply outlook does not extend throughout the state of Colorado and to adjacent areas in northern New Mexico. To the west the snow pack decreases to 100 to 125 percent of normal on the Grand Mesa and on the Dolores and San Juan Rivers in southwestern Colorado. On the headwaters of the Rio Grande, Conejos and Alamosa Rivers snow cover to date ranges from near normal to 20 percent above normal. To the east of San Luis Valley in the Sangre de Cristo Range there was practically no snow during February and the total seasonal snow pack is 80 percent of normal. Further declines were measured in northern New Mexico.

A relatively heavy snow occurred in a short period in the mountains of Arizona during February which has slightly improved the outlook for snow melt season on the Salt and Gila Rivers. Spring runoff is not expected to exceed one-half of normal for any watershed in the state. Prospects for the Gila and Salt Rivers and their tributaries are better than for the Little Colorado and William Rivers.

Snow cover in the Colorado River drainage in Utah ranges from well above normal on the Green River tributaries in the northern part of the state to less than normal on the Virgin River in southern Utah. The decrease in seasonal snowfall is relatively constant from north to south along the Colorado River-Great Basin divide. On the headwaters of the Green River in Wyoming the snow pack is 125 percent of normal. Other conditions favor a well above normal runoff from this stream in 1956.

MORTH PLATTE

The March 1 snow pack on the North Platte drainage in Colorado and Wyoming is 35 percent above normal for this date which represents an improvement in outlook over a month ago. Soil moisture under the snow is above normal in Wyoming and near normal along the Continental Divide in Colorado. The snow pack is nearly the same as for the heavy snow year of 1952. The possibility of a summer runoff in the range of that for 1952 is fairly remote. However, the inflow to the North Platte reservoirs is expected to exceed any other year of recent history except 1952. Storage in the four major reservoirs is now about 900,000 acre-feet as compared to 962,000 on March 1, 1955. Of this amount 725,000 acre-feet is assigned to the Kendrick project. Soil moisture conditions in the lower North Platte Valley of eastern Wyoming and western Nebraska are good but fair to poor in the upper valley.

On the Laramie River moisture conditions in the Laramie and Wheatland areas are fair to poor. The snow pack on the Laramie watershed is near a record high, and runoff should be well above normal during the next irrigation season.

SOUTH PLATTE

The seasonal snow pack is 150 percent of normal on all of the South Platte tributaries. Snow water content measured on most snow courses approach that for the year 1952. This represents an increase in estimates of streamflow over surveys made on February 1. If mountain snowfall through the remainder of the snow season is normal or above streamflow on all tributaries should be only slightly less than that experienced in 1952.

The favorable snow pack and runoff estimates does not represent the entire outlook for 1956. To detract somewhat from this favorable picture is the lack of reservoir storage. Storage in smaller irrigation reservoirs on the upper tributaries as well as on the lower South Platte is above March 1, 1955 but is substantially short of average carryover. With the good streamflow outlook, this shortage of stored water is decreasing in importance. In the Colorado-Big Thompson system the shortage of water is more acute. Usable storage in this system now totals 209,000 acre-feet as compared to 325,000 a year ago and over 500,000 on March 1, 1954. It is probable that total storage will increase during this water year. Storage in Denver municipal reservoir is down slightly from a year ago and less than one-half of normal.

Surface soil moisture in irrigated areas is much improved over the past two years but subsoil is dry as a result of a dry fall. Winter streamflow is reported as below normal.

ARKANSAS

The water supply outlook for the Arkansas River is much improved over the past two years. Snow pack on the headwaters of the stream near Tennessee and Fremont Passes is near 150 percent of average. This percentage declines rapidly to just above normal at Monarch Pass. Snow cover on the Sangre de

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ARKANSAS (Continued)

Cristo Range declined during February and is now about 80 percent of normal, lower than any other area in Colorado. Snowfall in irrigated areas has been relatively light and soils are dry. The flow of the main stem of the Arkansas River will be slightly above normal at Salida and near normal from Pueblo downstream. About one-half normal runoff is expected from the southern tributaries, the Cucharas, Huerfano and Purgatoire Rivers. Storage in upstream and plains reservoirs has improved over a year ago but is well below the average. There is 55,000 acre-feet of storage remaining in John Martin Reservoir of the over 200,000 acre-feet stored during the flood of May 1, 1955.

COLORADO

The water supply outlook for all areas of western Colorado and Wyoming is good. Snow pack on the headwaters of the Green River in Wyoming, the Yampa, White and Upper Colorado in Colorado and on the Uinta Mountains of Utah ranges from 125 to 150 percent of normal. Along the Continental Dīvide in northern Colorado snow measurements are near those for March 1, 1952,

The snow cover in respect to normal declines to the south and west in Colorado and Utah to near normal on the San Juan and Dolores drainages of southwestern Colorado and less than normal in southern Utah, Cn the Upper Colorado and Yampa Rivers heavy snowfall has occurred and remains on the ground at elevations down to 7,000 feet, Elsewhere snow has melted and surface soils are wet. Irrigation water supplies should be more than adequate for areas served by main streams. Shortages may occur in irrigated areas along tributary streams if the late summer months are dry, If snowfall for the remainder of the season is deficient, the flow of the Dolores and San Miguel Rivers may be less than normal.

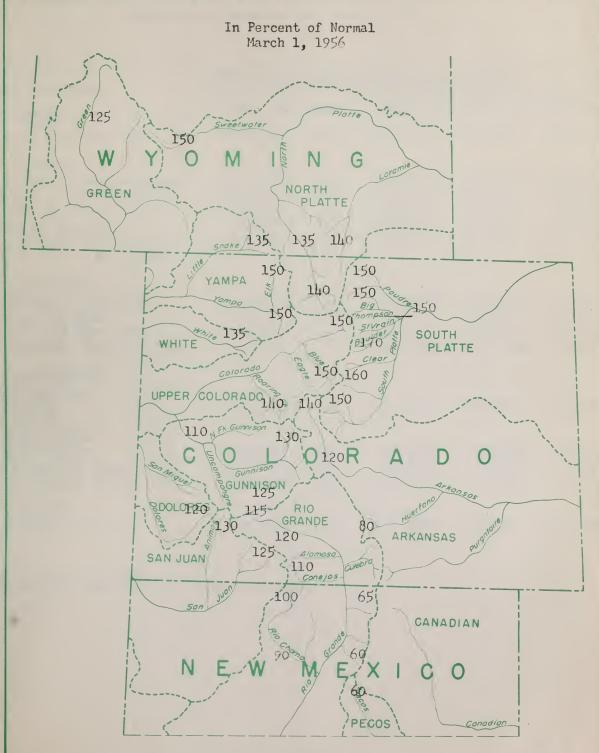
Except for Green Mountain Reservoir, a part of the Colorado-Big Thompson system, storage in major west slope reservoirs is below a year ago. Prospects for improving storage is good.

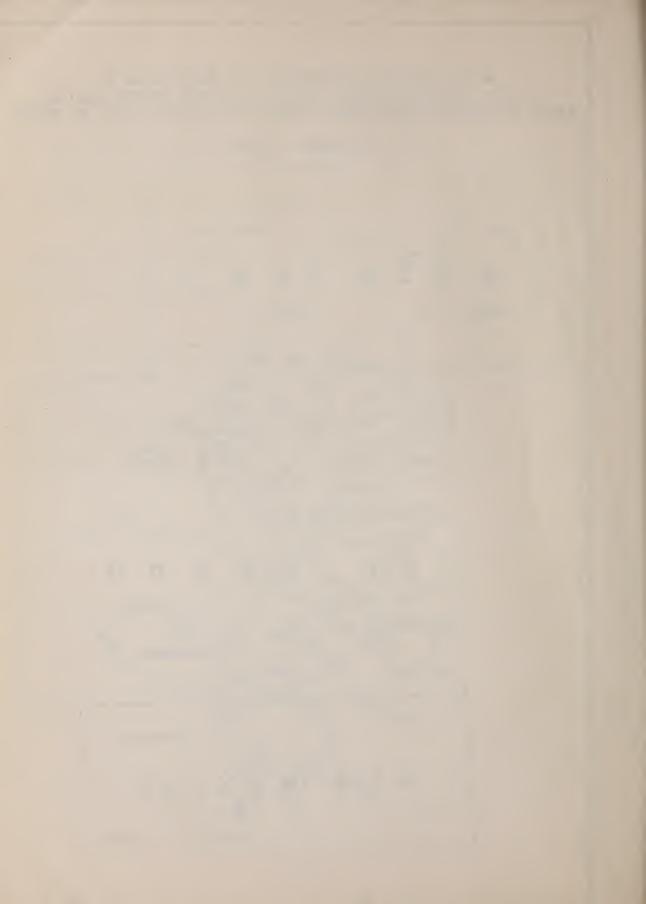
Inflow to Lake Head will most probably be about 115 percent of normal during the April-September, 1956 period. Inflow will probably be more than for the last two years combined but less than for 1952.

Storms during February made a substantial improvement in water supply outlook in Arizona but spring runoff is not expected to exceed one-half of normal on any stream in the state. Soil moisture conditions at high elevations are very good and runoff is expected to be better than the existing snow packs would indicate. The greatest improvement in snow pack has been on the Salt and Gila watersheds with less on the Little Colorado, Verde and Williams Rivers.

Storage on the Salt River reservoir system is about 90 percent of average and one-third of capacity. In San Carlos there is now 76,000 acre-feet in storage which is twice that of a year ago but only 44 percent of the 15-year average.

 WATER CONTENT OF SNOW ON THE WATERSHEDS OF
PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS
BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH





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COOFERATIVE SNOW SURVEYS

Stream flow Forecasts for March 1, 1956

	April-Sept.,	Incl.,	Streamflow A	cre Feet	
BASIN AND STREAM	Forecast	% of	-		year Avg.
	1956 15	yr.Avg.	1954	1953 1	938-52
GREEN Green at Linwood, Utah	1,600,000	123	1,011,000	957,000	1,302,000
COLORADO Colorado at Glenwood Springs Gunnison at Grand Junction San Juan at Rosa, N. M. Animas At Durango Colorado near Grand Canyon- Ariz.	2,000,000** 1,600,000 650,000 500,000 11,750,000	130 106 92 96 114	830,000** 342,000 352,000 300,000 4,006,000	953,000 370,000 315,000	1,540,000 1,510,000 703,000 522,000 0,063,000
RIO CRANDE Rio Grande at Del Norte Conejos at Mogote Rio Chama at Park View Rio Grande at Otowi Bridge	525,000** 225,000 205,000 575,000	97 103 90 69	294,000** 117,000 108,000 196,000**	302,000** 143,000 114,000 265,000**	565,000** 219,000 230,000 835,000**
NCRTH PLATTE North Platte at Saratoga	900,000	137	234,000	428,000	657,000
SOUTH PLATTE Poudre at Canon Saint Vrain at Lyons Clear Creek at Golden	275,000* 110,000 200,000*	125 125 142	75,000% 30,000 52,000%	114,000* 61,000 117,000*	220,000* 88,000 141,000*
ARKANSAS Arkansas at Salida	375,000*	116	158,000*	320,000	323,000*

^{*} Excluding Diversions

^{**} Including Diversions and change in storage

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		i		USABLE	USABL	USABLE STORAGE1000 ACRE FEET			
	AND ST		RESERVOIR	CAPACITY (THOUS.A.F.)	1956	1955	1954	15-year Avg. 1938-52	
	URI RIV			-0.4		- 0			
	e River	•	Windsor	18.6	3.3	2.8	4.5	9.5	
11	11		Cache la Poudre		4.5	4.0	5.4	6.4	
11	11		Fossil Creek	11.6	4.5	2.8		6.7	
11	11		Terry Lake	8.2	7.2	2.8	4.1	4.2	
11	11		Halligan	6.4	2.9	2.3	1.8	1.7	
ŧt	11		Chamber's Lake	8.8	1.2	1.2	1.2	2.4	
11	11		Cobb Lake	34.3	0.0	0.0	7.0	4.6	
11	11		Black Hollow	8.0	0.9	0.9	3.4	3.3	
11	tt		Horsetooth	143.5	51.4	83.9	119.0	- ₩	
	hompson		Lake Loveland	14.3	7.2	4.9	7.6	4.4	
tt	11	Ħ	Boyd Lake	44.0	0.0	0.0	8.7	16.0	
11	11	11	Lone Tree	9.2	8.2	6.4	7.0	5.3	
11	ft	II	Mariano	5.4	0.6	0.3	3.0	2.1	
11	11	17	Carter Lake	112.4	44.6	54.0	7.5.5	*	
	rain Ri		Union	12.7	1.6	1.0	6.1	6.8	
South	Platte	River	Eleven Mile	81.9	24.4	17.3	81.9	75.5	
11	Ħ	17	Cheeseman	79.0	23.3	23.9	26.7	55.3	
88	11	Ħ	Marston	18.9	14.2	13.0	15.4	14.7	
11	88	11	Barr Lake	32.2	16.6	12.6	15.1	19.7	
11	11	17	Milton	24.4	0.5	0.0	3.9	10.5	
11	11	tt	Standley	18.5	7.8	0.0	6.3	10.8	
11	21	tt	Marshall	10.3	1.1	0.0	0.6	2.3	
n	II	Ħ	Antero	33.0	0.0	10.2	10.2	13.8	
11	11	tt	Horse Creek	20.6	9.5	13.3	9.9	9.0	
11	11	11	Riverside	57.5	21.0	17.6	40.9	43.2	
11	11	tt	Empire	37.7	17.9	6.5	28.1	27.8	
11	11	11	Jackson Lake	35.4	31.9	26.5	33.2	31.1	
11	11	11	Prewitt	32.8	0.0	7.0	11.2	21.0	
II	11	tt	Point of Rocks	70.0	35.8	30.4	46.3	51.4	
II	ft	tt	Julesburg	28.2	19.8	21.2	21.2	20.3	
North	Platte	River	Kingsley	2180.0		1150.9		1125.6*	
11	11	11	Minatare	60.8	20.6	19.3	32.3	22.8	
tt.	11	tt	Alcova	190.0	169.9			81.9	
11	II	11	Seminoe	1025.0	286.0	322.0	245.0	351.6*	
11	11	tt	Guernsey	46.0		22.5		36.1	
11	11	11	Pathfinder	1045.5	411.4	447.1	846.5	396.8	
11	11	11	Sutherland	185.0	47.6	51.1	51.0	49.4	
Larami	ie Rive	r	Wheatland	70,4	4,00	1.2	10.4	31,6	
	SAS RIV		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1094				3	
	sas Riv		Twin Lakes	57.9	15.9	13.9	13.3	25.0	
11) 40 T/T 4	11	Sugar Loaf	17.4	7.1		5.2	7.9	
11		11	Clear Creek	11.4	4.3	1.6	0.6	5.1	
11		11	Meredith	41.9	. 0.0	0.0	0.0	17.5	
n		tt	Horse Creek	26.9	- 0.0	0.0	0.0	9.2	
11		Ħ	Adobe Creek	61.6	. 0.0	0.0	0.0	26.0	
11		ff .	Cucharas	40.0	11.7	0.0	0.0	5.9	
Ħ		17	Two Buttes	40.9	23.4	0.0	0.0	13.5	
tt		n	John Martin	655.0	55.5	4.9		69.4*	
71		11	Great Plains	150.0	0.0			51.6	
	toire R		Model	15.0	2.0	1.7		3.7	
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RESERVOIR STATUS (Continued)

	1	USABLE	USABLE	STORAGE	- 1000 ACRE FEET
STREAM	RESERVOIR	CAPACITY			15-yr.Avg.
		1000 A.F.	1956	1955	1954 1938-1952
COLORADO DRAINAGE					•
Taylor River	Taylor Park	106,2	37.7	51 =4	49.9 61.7
Los Pinos River	Vallecito	126.3	43.2	57.1	34.2 40.1*
Groundhog Creek	Groundhog	21.7	3.5	4.0	4.0 9.0
Blue River	Green Mountain	146.9	56.3	45.2	75.6 68.1*
Colorado River	Granby	467.5	56.36	179.7	396.8 *
Colorado River	Lake Mead	27935.0	11038.0	11869.0	16,242.0 18536.0
Colorado River	Lake Havasu	688.0	592.1	1709.7	620.0 568.2*
Colorado River	Lake Mohave	1818.3	1710.3	616.3	1691:0 *
SALT AND GILA DRA	INAGE				
Salt River	Roosevelt	1420.0	236.2	571.8	1014.5 434.9
11 89	Apache	245.0	242.5	242,8	221.2 188.1
18 19	Canyon	58.0	54.6	57.8	57.2 37.6
11 11	Saguaro	70.0	65 .4	55.2	51,0 28,6
Verde River	Bartlett	200.0	85.2	65.0	40.4 59.1*
Aqua Fria River	Carl Pleasant	173.0	27.8	23.1	32.6 23.0
Gila River	San Carlos	1200.0	76.3	34.9	0.4 184.0
	Horseshoe	143.0	2.2	1.8	11.0 18.6*
			·		
RIO GRANDE	Rio Grande	45.0	5.2	6,2	5.9 15.0
	Santa Maria	45.0	3.1	7.8	2.4 10.1
	Sanchez	103.0	13.5	3.8	3.6 12.5
	Terrace	17.7	1.4	1.0	1.5 3.3
	Continental	26.7	1.8	3.5	4.9 7.2
	Platoro	60.0	0.0	0.0	0.0 *
	Elephant Butte	2273.7	229.8	150.3	167.6 889.3
	Caballo	365.0	11.6	19,6	17.6 194.7
CHAMA RIVER	El Vado	226.0	0.3	0.0	3.7 50.6
		444	- 41 -		- /- / / -
CANADIAN RIVER	Conchas	600.0	264.3	144.5	167.6 275.7*
PECOS RIVER	Alamogordo	148.0		80.4	39.2 67.2
	McMillan-Avalon	45.0		34.8	5.1 13.5

*Shorter periods

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COOPERATIVE SNOW SURVEYS

SUMMARY OF SNOW MEASUREMENTS

March 1, 1956

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	No. of	Years	March 1, 1		
WATERSHEDS	Courses	of		as pe	rcent of
	Averaged	Record	1955	1954	Average
DI AMME DITIED					
PLATTE RIVER	2	16-19	145	124	152
Sweetwater North Platte River	10	18-20	157	206	134
Laramie River	7	15-19	196	213	146
South Platte River*	4	16-19	144	169	154
Poudre River	6	16-19	201	224	154
Big Thompson River	3 6 2 1 2 2	15-18	222	208	149
St. Vrain River	i	19	311	205	151
Boulder Creek	2	18-19	221	261	181
Clear Creek	2	14-19	238	249	157
	_				. – ,
ARKANSAS RIVER	6	14-20	164	174	127
COLORADO RIVER		0.00		0	
Colorado River*	20	8-20	199	218	143
Roaring Fork	4	9-20	170	215	141
Plateau Creek	3	16-19	104	131	107
Yampa River	2 5 2 7 3 5 3 9 6 6 5 3 4	17-20	141	241	143
White River	2	17-20	157	215 161	136
Gunnison River Dolores River	1	15-20 14-17	125 155	243	113 119
San Juan River	2	15-19	159	191	119
Animas River	2	17-19	163	334	140
Gila River	٥	8-18	110	224	110
Salt River	6	15-18	126	343	100
Verde River	6	9-10	25	233	22
Little Colo. River	Š	9-18	66	263	64
Williams River	á	10			
Lower Colo. River	4	9	45	156	49
RIO GRANDE					
Rio Grande (Colo.)	10	14-19	161	192	106
Upper Rio Grande	3	17-19	162	178	123
Alamosa River	3 2 2	15-19	237	249	128
Conejos River	2	19	166	252	94
Culebra River	1	16	94	98	65
Rio Grande (N.M.)	10	14-19	120	190	82
Chama River	4	15-19	181	248	101
Pecos River	3	14-19	97	311	61
Canadian River	3	14-18	85	113	64

^{* -} Above Glenwood Springs

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VALLEY PRECIPITATION1/
Division Averages and Departures2/

DRAINAGE DIVISIONS	SeptOct Average	1 Nov. 1955 Departure2/	Winter December & January Average Departure2/		
NORTH PLATTE RIVER, Wyo.	2.07	-1-14	2.27	<i>←</i> •39	
SOUTH PLATTE RIVER	1.80	-1.35	.83	16	
ARKANSAS River	1,45	-1.53	1.22	28	
COLORADO River	3.16	-1.52	5.42	≠ 2.10	
GREEN River, Wyo.	2,26	49	2.00	<i>+</i> .67	
SAN JUAN River, New Mexico	65،	-2.49	2.47	<i>←</i> .68	
COLORADO RIVER, Arizona	॰गम	76	1.02	31	
GILA River, Arizona	•96	- 3.36	1.15	-1.19	
CANADIAN RIVER, New Mexico	2.55	-1.09	•52	- •73	
RIO GRANDE, Colo.	.83	-1.63	1.06	/ .19	
RIO GRANDE (N) New Mexico	1,16	-2.65	2.01	29	
RIO GRANDE (S) New Mexico	1.66	86	•34	65	
PECOS River, New Mexico	3.26	47	.51	39	

^{1/} Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Serivce of Canada and U. S. Weather Bureau.

^{2/} Departure from 15-year (1938-1952) drainage division average.

^{3/} Selected Stations.

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COOPERATIVE SNOW SURVEYS

March 1, 1956

Snow Cover Measurements									
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Drainage Basin			-	1956	TAP &		ast Rec		
and		777	Date	Snow	Water	Water	Conten	t (In.)	Years
Snow Course	Number	Elev.	of	Depth	Content	2000	2001	Average	of
	-		Survey	(In.)	(In _*)	1955	1954	1938-52	Record
COLORADO RIVER DRAINAGE									***
COLORADO RIVER (AN									
Cameron Pass*(a)	5J1	10300	3/3	72	24.5	13.0	11.7	16.7	19
Park View*	6J2	9200	2/28	44	9.7	5.1	4.9	7.7	20
Phantom Valley	514	9300	2/28	47	12.9	7.2	4.3	8.9	20
Hoosier Pass	6K1	11400	2/28	50	14.4	9.0	8.5	9.3	19
Berthoud Pass	5K3	9700	2/29	58	16.3	8.9	8.0	12.3	20
Tennessee Pass	6K2	10200	2/29	50	12.4	7.1	5.2	7.5	20
M.Fork Camp Gr.	5K4	9000	Est.	40	10.1	6.2	4.6	8.2	20
Fiddler Gulch	6K5	11000	Est.	63	19.4	9.0	9.3	12.9	19
Lulu	5 J 7	10200	2/26	71	21.8	9.8	7.8	14.2	18
Willow Creek P.	6J5	9500	2/28	57	13.6	7.8	7.0	10.4	18
N. Inlet Grand L.	5J9	9000	3/1	42	11.4	6.0	4.4	7.8	17
Lake Irene	5J10	10600	3/1	81	27.1	12.7	13.2	17.8	18
Arrow	5K6	9900	2/29	47	12.9	6.5	4.7	8.1	18
Lapland	5K7	9500	3/1	49	12.5	7.9	5.9	9.9	16
Fremont Pass #2	6 K8	11400	2/29	64	18.2	8.6	9.8	12.9	20
Lynx Pass	6 J 6	9100	2/29	58	15.8	10.4.	7.3	10.5	20
Shrine Pass	6K9	10500	3/1	67	21.5	8.7	10.5	13.9	14
Grizzly Peak	5K9	11250	2/28	74	23.0	8.1	9.7	15.2	14
Glen-Mar Ranch	5K10	8850	3/1	37	9.1	5.2	3.8	8.2	9
Monarch Lake	5314	8500	3/1	53	15.5	9.1	.7.3	13.0	8
Granby	5J16	8700	2/29	41	10.1	4.3	3.0	un 000	7
Grand Lake	5J19	8600	2/28	49	11.8	5.6	3.5		7
Berthoud Summit	5K14	11300	3/1	66	19.1	12.5	9.6	displants.	Ė
Frazer View	5K15	10600	3/1	52	13.8	7.3	4.5	ages from	ź
Gore Pass	6J11	8900	2/29	48	13.2	9.5	4.0	-	ź
Frisco	6K13	9300	2/28	42	10.8	4.5	4.1	***	ź
Snake River	5K16	9700	2/28	46	12.1	4.4	3.8	cale right	ź
Pando	6K19	9500	2/29	44	12.1	6.3	7.5	mp. 0000	775555533
Vail Pass	6K15	10000	2/29	73	25.0	9.9	8.6	qual qual	3
ROARING FORK	Q11.2.)	20000	2/2/	1)	2700	/•/	0.0		
Ind.Pass Tunnel	6KL	10700	2/28	58	17.5	9.5	11.0	13.8	20
No.Lost Trail (a)	7K1	9200	2/29	59	17.4	12.4	7.7	11.1	20
Nast	6K6	8700	2/29	35	8.3	3.7	2.6	6.0	19
Ivanhoe	6K10	10400	2/28	74	24.0	14.1	9.9	16.5	9
GREEN RIVER	01120	20400	2/20	14	24.0	-44-	/•/	,	
Dutch Joe	9G5	8700	2/27	46	12.8	4.2	5.6	em-qm	5
Mulligan Park	9G1	8900	2/28	45	11.6	4.4	7.1	9.9	14
Kendall R.S.	10F15	7900	2/25	43	11.9	6.6	6.6	10.6	15
Loomis Park	10F16	8500	2/24	65	20.8	10.4	16.8		15
East Rim Divide	10F17	7950	2/29	46	12.8	6.1	8.9	10.3	16
TOO O TITHE DIVING	407.71	1770	4/4/	40	#5.00		20/		

NS - No survey
*On adjacent drainage
*** Courses with less than 15 years record in period 1938-52 have all years prior to
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COOPERATIVE SNOW SURVEYS

March 1, 1956

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				Snow	Course M				or concrete Garcines states
Drainage Basin			and the second second			P	ast Re	cord	DILUM NOVEMBER OF
and			Date	Snow	Water	r. ew	: Cont	ent (In.)	Years
Snow Course	Number	Elev	of	Depth	Content			Average	of
	- Seeming and the Contract of the		Survey	(Inc)	(Inc)	1955	1954	1938-52	Record
		COI	LORADO RI	VER DRA	INAGE				***
YAMPA RIVER	4	0 -					٠		
Dry Lake (a)	6J1	8300	3/3	79	26.0	17.5	8.5	16.3	17
Columbine Lodge*	6J3	9300	2/28	84	27.4	20.7	11:1	18.4	20
Elk River (a)	6J4	8700	3/3	62	1.9.5	17.8	7.7	14.1	17
Lynx Pass*	6 J 6	9100	2/29	58	15.8	10.4	7.3	10.5	20
Routt Line	6J8	9700	2/28	105	34.6	24.3	19.5	-	5
Rabbit Ears	6J9	9550	2/28	99	32.2	20.6	14-2	COS .	5
Yampa View	6J10	8500	2/28	55	16.3	1201	7.3	280	5 5 5
Old Battle*	6H10	9800	2/27	95	32°6	19,6	16.0	25.5	19
WHITE RIVER									
Burro Mountain	7K2	9000	2/28	62	18,2	12.1	11.5	14.04	20
Rio Blanco	7J1	8500	3/1	61	18.7	11.5	6.2	12.8	17
PLATEAU CREEK									
Mesa Lakes	7K4	10000	2/26	49	15°2	14.1	11.7	12,9	19
Trickle Divide (a)	7K5	10000	3/3	75	22.5	22.3	17.1	2204	16
GUNNISON RIVER									
Crested Butte	6Ll	9000	3/1	54	15°6	11.0	5.8	12.0	20
Park Cone	6L2	9700	3/1	47	11.9	6.7	6.7	8-4	19
Alexander Lake (a)	7K3	10000	3/3	62	18,6	19.5	13.1	17.9	19
Ironton Park	7M6	9800	2/28	49	15.2	7.2	409	11.1	19
Trickle Divide (a)	7K5	10000	3/3	75	22.5	22,3	17.1	2204	16
Park Reservoir (a)	7K6	9500	3/3	71	21,3	21.0	1801	21.1	16
Porphyry Creek	6L3	10800	2/29	55	15.4	8.9	9.2	13.5	15
Lake City	7M8	10300	3/1	26	7.5	5.7	NS	63	7
Spring Cr, Pass*	6M13	10900	2/28	30	6,2	6.0	6.0	-	5
Cochetopa Pass*	616	10000	2/29	22	5.2	404	3.8	esc.	7
McClure Pass (a)	7K8	9500	2/29	58	18-4	13.7	6.9	860	6
Red Mt. Pass	7M15	11000	3/1	81	27,3	19.1	20.0	000	7 5 7 6 5
			-,						
SAN JUAN RIVER									
Wolf Creek Pass*	6M1	10000	3/1	88	32.3	18,6	17.2	24.3	19
Upper San Juan	6M3	10000	3/1	91	30.9	21.06	19.3	27.0	18
Granite Peaks	7M?	7950	2/29	30	8.5	6.5	2.0	7.4	15
Wolf Creek Summit	6M17	11000	3/1	84	30.2	16.1	15.9		5
Chama Divide*	6N2	7750	2/29	19	5.3	3.4	2.4	5.2	16
Chamita*	6N3	8500	2/29	37	10.8	5.5	5.0	10.0	15
	- 3.7	-) ••	-1-1	-		101	700		

^{* -} On adjacent drainage

** - Courses with less than 15 years records in period 1938-52 have all years

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NS - No survey

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COOPERATIVE SNOW SURVEYS

March 1, 1956

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Drainage Basin		1956						rd	
and		Elev.	Date	Snow	Water			ent (In.)	Years
Snow Course	Number		of	Depth	Content			Average	of
3.10.11			Survey	(In.)	(In.)	1955	1954	1938-52	
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		COLO	RADO RIV	ER DRAI	NAGE				
ANIMAS RIVER									
Silverton Sub.S.	7M4	9400	3/1	27	6.7	7.5	0.0	5.3	17
Ironton Park	7M6	9800	2/28	49	15.2	7.2		11.1	19
Cascade	7M5	8850	3/1	48	16.2	8.6		10.9	17
Spud Mt.	7W1	10700	3/1	72	25.0	22.5	12.2		5
Molas Lake	7M12	10500	3/1	52	16.9	8.4	3.2		. 5
Howardville	7M13	9800	Est	38	10.4	8.0	7.6		55555
Mineral Creek	7M14	10300	3/1	54	15.1	7.5	8.3	and the second	5
Red Mt. Pass	7M15	11000	3/1	81	27.3	19.1	20.0	cost these	5
DOLORES RIVER									
Rico River	7M1	8700	2/29	36	9.1	6.6.	1.8	7.0	16
Telluride	7M1 7M2	8600	2/29	35		4.1	4.4	7.3	17
Lizard Head	7M2 7M3	10300	2/29	58	15.0	10.0	7.0	12.8	14
Trout Lake	7M9	9700	2/29	53	13.5	8.5	6.3		. 7
22000 22000	1 7/1/	7100	-/ - /	7,7	±J•J	0.0	0.0		•
GILA RIVER									
Frisco Divide	881	8000	2/29	8	3.0	1.7	0.2	2.0	18
State Line	988	8000	2/29	10	3.7	2.4	0.3	2.8	18
Taylor Creek	781	7850	2/29	0	0.0	0.0	NS	0.5	14
Inman	7S2	7800	2/29	0	0.0	0.0	0.0	0.7	10
Nutrios	984	8500	2/29	8	2.4	1.6	0.1	2.2	18
Coronado Trail	987	8000	2/28	10	2.9	3.1	0.0	3.5	18
Beaver Head	986	8000	2/29	13	3.1	2.7	0.0	3.4	18
Rose Canyon	10T2	7300	2/29	3	1.2	0.9	0.0	0.5	8
Bear Wallow	10T1	8100	2/29	11	3.6	5.4	1.5	2.3	8
ממודת מתחמוו									
VERDE RIVER	3 00 0	6200	2/29	0	0.0	0 0	0.0	2.0	10
Iron Springs* Camp Wood	12R2 12R1	5700	2/29	0	0.0	0.0	0.0	1.2	10
Mingus Mountain	12R1	7100	2/29	Ö	0.0	0.0	0.0	1.9	
Morman Lake*	11R4	7350	2/29	9	2.7	7.0	T	7.0	ó.
Fort Valley*	11P2	7350	2/29	3	1.0	.4.0	T	3.2	o'
Chalender*	12P1	7100	2/29	2	0.6	4.9	1.6	3.7	9.
Munds Park	11R1	6500	2/29	0	0.0	4.2	0.0	J • 1	6
Casner Fark	11R2	6930	2/29	6	1.2	5.9	0.0		9 9 9 6 5 6
Mormon Mt.	11R3	7500	2/29	14	4.6	7.8	T		6
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^{*}On adjacent drainage

^{**}Courses with less than 15 years record in period 1938-52 have all years prior to 1952 averaged.

NS - No Survey

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-13-COOPERATIVE SNOW SURVEYS

March 1, 1956

				-3 -//	Snow Cou	irse M	easure	ments	
Drainage Basin				1956				Record	
and			Date	Snow	Water	Water	Conte	nt(In.)	Years
Snow Course	Number	Elevo	of	Depth	Content			Average	of
			Survey	(In.)	(Ine)	1955	1954	1938-52	Record
		COLO	RADO RIV	ת אפת פים	NIA CE				}(-)(
WILLIAMS RIVER		OCEO	IMDO ILL	THE DIGST	LUAUL				
Iron Springs	12R2	6200	2/29	0	0.0	0.0	0.0	2.0	10
Camp Wood*	12R1	5700	2/29	Ó	0.0	0.0	0.0	1.2	10
Willow Ranch	13P1	5000	3/1	0	0.0	0.0	0.0	0.3	10
LOWER COLORADO RIV	12Nl	8400	2/29	22	7.1	8.8	4.8	10.6	0
Bright Angel Grand Canyon	12N1 11P1	7500	2/29	23 4	1.2	4.4	4.0 T	2,7	9
Fort Valley	11P2	7350	2/29	3	1.0	404	Ť	3.2	9
Chalender	12P1	7100	2/29	2	0.6	4.9	1.6	3.7	9 9 9
		,	-, -,	_		7.,			
SALT RIVER									
Forest Dale	10R6	6430	2/29	2	0.8	0.8	0.0	1.3	17
McNary	9R2	7200	2/29	9	3.6	2.5	3.8	2.9	17
			2/29						
						•			
								~~ ·	5
								con fee	6
Fort Apache	9R5	9160	3/1	27	8.7	4.8	5.4		6
Pacheta	985	7800	2/29	20	4.9	3.6	T		6
Workman Creek	1081	6900	2/29	12	3.4	3.1	0.0	040 MB	4
TIMETE COLODADO									
	10R6	61:30	2/29	2	0.8	0.8	0.0	1.3	17
•				8			0.1		18
Mormon Lake						7.0	T	7.0	
Fort Valley	11P2	7350	2/29	3	1.0	4.0	T	3.2	9
Mormon Mt.	11R3	7500	2/29	14	4.6	7.8	T	-	6
Pacheta Workman Creek LITTLE COLORADO Forest Dale* McNary Nutrioso* Mormon Lake Fort Valley	985 1081 10R6 9R2 984 11R4 11P2	7800 6900 61430 7200 8500 7350 7350		8 10 13 6 30 20 27 20 12	2.4 2.9 3.1 1.9 9.7 6.1 8.7 4.9 3.4 0.8 3.6 2.7 1.0	3.6 3.1 0.8 2.5 1.6 7.0 4.0	T 0.0	1.3 2.9 2.2 7.0	9

**On adjacent drainage
***Courses with less than 15 years record in period 1938-52 have all years prior to
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NS - No Survey

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COOPERATIVE SNOW SURVEYS March 1, 1966

			,		w Cover 1	leasur			
Drainage Basin			-	1956		-		Past Rec	
and	Number	Elev.	Date	1	Water	Water	Conte	ent (In.	
Snow Course			of		Content			Average	
			Survey			1955	1954	1938-52	
	COLORA	DO RIVI	ER DRAI	NAGE (1	UTAH)	•			36%
UPPER GREEN RIVER									
King's Cabin (upper)	9J1		2/28	44	11.7	8.3	10.6	8.8	7
King's Cabin (lower)	9J2	8600	2/28	39	9.6	6.7	8.6	8.2	7
DUCHESNE RIVER	7.070	2022	0 /00	~ 0	25 2		a 0 1	07.0	7.0
Trial Lake*	1018		2/28	98	35.3	11.9	18.4		10
Soapstone R.S.*	11J25		2/28	51	14.8	8.0	8.3	10.3	9
Daniels-Strawberry Summi			2/27	58	17.0	11.8	11.4		25
Strawberry Divide*	11J8	8000	2/25	64	21.6	15.1	11.4	18.1	20
East Portal*	11J7		2/25	34	9.7	7.6	6.5	11.6	21
Indian Canyon	10Kl		3/1	38	12.3	9.9	8.8	9.0	18
Lakefork Mountain	10J10	10500		49	14.9-	10.0	9.3	9.4	5
Lakefork Mountain #2	10J11	8900	2/29	40	12.0	7.8	7.2	may 1000	3
Lakefork Mountain #3	10J12	8100	2/29	32	8.4	7.1	6.0		3
Paradise Park	9J3	10500	2/27	56	15.9	9.7	12.4		5 3 5 6
Mosby Mountain (lower)	9J5	9500	2/27	46	11.6	8.9	10.9		6
PRICE RIVER						0			
Huntington-Horseshoe	11 K5	9800		NS	NS	17.8	13.5	49 90	6
Gooseberry Reservoir	11K4		2/27	59	18.7	14.2	12.2	16.0	11
Mud Creek	11K6		2/28	67	22.4	10.2	8.9		6
Staley Ranch	11K7	7600	2/28	26	8.0	7.0	3.8	7.2	15
Dry Valley Divide	11K8	7800	2/28	40	12.3	8.7	7.3	10.0	15
Indian Canyon*	lokl	8100	3/1	38	12.3	9.9	8.8	9.0	17
SAN RAFAEL RIVER									
Huntington-Horseshoe	11K5	9800		NS	NS	17.8	13.5		6
Gooseberry Reservoir	11K4	8700	2/27	59	18.7	14.2	12.2	16.0	11
ESCALANTE RIVER			- 1-0			- 0			
Widtsoe-Escalante Summit			2/28	23.	7.0	7.8	1.5	7.9	19
Widtsoe-Escalante #2	11M2	9500	2/28	29	7.1	8.2	5.2		6
HTDATH DIHDO									
VIRGIN RIVER	3.044/	2500	0 /07	0	0	۲ ۵	1. 1.		7
Long Valley Junction	12M6		2/27	0	0	5.0	4.4	70.0	7
Harris Flat R.S.*	12M5		2/27	15	4.5	9.8	5.9	10.2	13
Duck Creek R.S.*	12114		2/27	43	13.3	12.5	9.5	14.5	12
Midway Valley*	12M2		2/29	63	20.6	19.4	18.9	30/	2
Cedar Breaks*	12M1	10390		63	20.6	NS	17.4		10
Webster Flat	12M3	9200	2/29	46	13.7	14.4	13.2		6
LOWER COLORADO RIVER									
(Southeastern Utah)	9L1	8800				9.0	5.5		4
LaSal Mountain	ADT	0000				7.0	7.5		4

*Adjacent Drainage
***Courses with less than 15 years record in period 1938-52 have all years prior
to 1952 averaged.
NS - No Survey

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COOPERATIVE SNOW SURVEYS

March 1, 1956

March 1, 1956 Snow Cover Measurements												
		_			ow Cover							
Drainage Basin				1956			t Reco					
and			Date	Snow	Water	Water	Conte	nt(In.)	Tears			
Snow Course	Number	Elev.	of	Depth	Content			Average	of			
			Survey	(Inc)	(In.)	1955	1954	1938-52	Record			
		RI	O GRANDE	DRAINA	GE			1	**			
RIO GRANDE IN COLO												
Wolf Creek Pass	6MI	10000	3/1	88	32.3	18.6	17.2	24.3	19			
Upper Rio Grande	6M2	9350	2/29	31	5 ₈	4-3	4.5	6.9	18			
Silver Lakes	61vi4	9600	2/26	34	8.9	3.7	2.2	5.9	19			
River Springs	61vi5	9300	2/27	32	8.1	3.7	3.3	7.2	19			
LaVeta Pass #2	5M1	9300	3/2	25	8 = 4	7.01	6.1	8.3	18			
Summitville	61vi6	11500	3/1	63	19.4	8.3	9.1	16:2	15			
Cumbres Pass #2(a)	6M7	10000	3/3	55	18.1	12:0	7.1	20.8	19			
Santa Maria	61v.8	9700	2/28	26	5.8	4.0	2,8	4.5	17			
Culebra	5M3	10000	3/1	25	6.4	6.8	6.5	9.8	16			
Ft. Garland	5M4	8200	$\frac{3}{2}$	0	0.0	1.8	0.0	2.9	14			
Platoro	6Ivi9	9950	3/2	52	14.2	6.9	8.2	~~	6			
	6M10	9450	3/3	38	10,3	4.7	5.2	ton one	7			
West Conejos			3/3	64	20.6	15.4	12 6					
La Manga	6M11	10100	2/29				6.1	top one	{			
Pyramid	6M12	10300		35	7.7	6.4		100 Mari	7557775555			
Spr. Creek Pass	6M13	10900	2/28	30	6.2	5.4	6.0		2			
Pool Table Mt.	6M14	10000	2/27	19	3.0	4.3	3.5		(
Lake Humphreys	6N15	9300	2/27	27	4.3	5.1	4.8	speed spaces	7			
Cochetopa Pass	6L6	10000	2/29	22	5.2	4=4	3.8	gen man	7			
Howardville	7M13	9800	3/1	52	16.9	700	7.6		2			
Red Mt. Pass	7M15	11,000	3/1	81	27.3	19.1	20.0	gert som	5			
Porcupine	61116	10400	2/28	37	6.9	6.7	8,8		5			
Wolf Creek Summit	6M17	11000	3/1	84	30.2	16.1	15.9		5			
UPPER RIO GRANDE												
Wolf Creek Pass	6M1	10000	3/1	88	32.3	18,6	17.2	24.3	19			
Upper Rio Grande	6M2	9350	2/29	31	5.8	4.3	45	6.9	18			
Santa Maria	6M8	9700	2/28	26	5.8	4=0	2.8	4.5	17			
ALAMOSA RIVER												
Silver Lakes	6M4	9600	2/26	34	8.9	3.7	2.2	5.9	19			
Summitville	6M6	11500	3/1	63	19.4	8.3	9.1	16,2	15			
			-,			_						
CONEJOS RIVER												
River Springs	6iv.5	9300	2/27	32	8.1	3.7	3.3	7 = 2	19			
Cumbres Pass #2(a)		10000	3/3	55	18.1	12.0	7.1	20.8	19			
Platoro	6Ivi 9	9950	3/2	52	14.2	6.9	8.2	nu ***	6			
West Conejos	6M10	9450	3/3	38	10.3	4.7	5.2	non-way	7			
La Manga	6M11	10100	3/3	64	20.6	15.4	12.6	quest entité	7			
na manga	OWLLI	10100		04	2000	->04						
CULEBRA RIVER												
Culebra	5M3	10000	3/1	25	6.4	6.8	6.5	9.8	16			
outena	رالار	10000	2/ ±	2)	0.14	0.0		,	10			

⁽a) Air Observed

NS - No Survey

^{**} Courses with less than 15 years record in period 1938-52 have all years prior to 1952 averaged.

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March 1, 1956

Snow Cover Measurements											
Drainage Basin		1	1956 Past Record								
and	Number	Elev.	Date	Snow Water		Water	Years				
Snow Course	110000	2201	of	4	Content			Average	of		
5			Survey			1955	1951	1938-52	Record		
	L	L		(2214)	1 (2007)	-///	-//-	-//- /-	**		
	RIO GR	ANDE DR	AINAGE	(New M	exico)				,,,,		
CHAMA RIVER											
Cumbres Pass#2(a)	6M7	10000	3/3	55	18.1	12.0	7.1	20.8	19		
Pay Role	6NI	9700	3/3	40	11.2	4.2	3.9	9.2	15		
Chama Divide	6N2	7750	2/29	19	5.3	3.4	2.4	5.2	16		
Chamita	6N3	8500	2/29	37	10.8	5.5	5.0	10.0	15		
Bateman	6N4	9300	2/28	41	10.7	8.6	6.5	-	6		
PECOS RIVER											
Aspen Grove*	5P1	9500	3/1	13	3.7	3.1	2.0	4.6	19		
Panchuela	5P2	9200	3/1	5	1.8	2.5	0.6	3.5	19		
Big Tesuque*	5P3	9000	3/1	10	3.0	3.2	0.0	5.6	14		
RIO GRANDE								- 0	- 0		
Red River	5N1	9500	3/1	14	4.0	5.3	3.4	7.8	18		
Taos Canyon	5N2	9000	2/29	14	4.5	5.9	3.7	5.6	18		
Aspen Grove	5P1	9100	3/1	13	3.7	3.1	2.0	4.6	19		
Tres Ritos	5N4	9000	3/1	17	4.2	3.9	3.3	6.0	18		
Pay Role	6N1	9700	3/3	40	11.2	4.2	3.9	9.2	15		
Chama Divide	6NS	7750	2/29	19	5.3	3.4	2.4	5.2	16		
Chamita	6N3	8500	2/29	37	10.8	5.5	5.0	10.0	15		
Cordova (a)	5N5	10100	3/3	21	6.9	8.5	5.1	9.9	14		
Panchuela #2	5P2	8500	2/29	5	1.8	2.5	0.6	3.5	19		
Big Tesuque	5P3	10000	3/1	10	3.0	3.2	0.0	5.6	14		
Elk Cabin	5P4	8350	3/1	10	3.9	4.1	0.0	3.1	8		
Rio En Medio	5P5	10400	3/1	23	6.6	4.4		-	6		
Quemazon	6Pl	9500	2/29	30	6.0	3.9	5.0		6		
Bateman	6N4	9300	2/28	41	10.7	8.6	6.5		3		
Fenton Hill	6P2	8900	3/1	18	5.4	NS	0.9	Girt Street	,		
CANADIAN RIVER											
Hematite Park	5N3	9500	2/28	12	2.5	3.6	3.7	5.1	18		
Tres Ritos*	5N4	9000	3/1	17	4.2	3.9	3.3	6.0	18		
Cordova*(a)	5N4 5N5	10100	3/3	21	6.9	8.5	5.1	9.9	14		
Oor dovaw(a)	2M2	TOTOO	2/2	4.1	0.,	0.0	7.1	/•/			

*On adjacent drainage
**Courses with less than 15 years record in period 1938-52 have all years prior to
1952 averaged.

⁽a) Air Observed
NS - No Survey

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COOPERATIVE SNOW SURVEYS

			March 1	1, 1956					
				Sr	now Cover				
Drainage Basin				1956			Past Re		
and	Number	Elev.	Date	Snow	Water		Conte	ent (In.)	Years
Snow Course			of	Depth	Content		- 051	Average	of
		707	Survey	(In.)	(In.)	1955	1954	1938-52	Record
SWEETWATER RIVER		.Plue	ATTE RIVE	R DRAIN	(A GE				**
Grannier Meadows	8G4	9000	3/1	53	16.6	12.5	13.5	11.5	19
South Pass*	8G3	9000	3/1	56	18.3	11.7	14.6		16
Larsen Creek	9G6	9000	NS NS	NS	NS	3.6	4.2		7
NO PLATTE RIVER	/								
Cameron Fass (a)	5J1	10300	3/3	72	24.2	13.0	11.7	16.7	19
Park View	6J2	9200	2/29	44	9.7	5.1	4.9	7.7	20
Columbine Lodge	6J3	9300	2/28	84	27.4	20.7	11.1	18.4	20
Willow Cr. Pass*	6J5	9500	2/28	57	13.6	7.8	7.0	10.4	18
Northgate	6J7	8500	2/28	32	7.5	4.0	3 - 5	60-61	6
Bottle Creek	6H8	8200	2/27	51	15.6	10.0	9.2	11.4	18
Webber Spring	6H9	9000	2/27	61	19.2	12.2	8.8	14.9	18
Old Battle	6H10	9800	2/27	95	32.6	19.6	16.0		19
N. French Creek	6Н4	10200	2/26	90	29.2	19.0	16.4		18
N. Barrett Creek	6H5	9400	2/26	68	19.6	13.2	9.9	15.0	19
Ryan Park	6H6	8400	2/26	44	13,C	9.0	4.4		19
Spring Creek	6H7	9000	2/28	49	15.6	9.3	7.9		6
Albany	6H11	9400	3/2	52	16.6	8.3	6.6		7
La Bonte Boxelder	5G2 5G1	8450 9000	2/28 2/29	17	4.5	5.8	3,8		7
LARAMIE RIVER	SGT	9000	2/27	17	3,6	5.3	3.9	~~	0
Roach	6J8	9800	3/3	69	22.7	13.5	12.6	15.1	15
Deadman Hill(a)	5J6	10200	3/3 3/3	56	17.8	8.5	10.5	11.4	19
Brooklyn Lake	6H1	10200	3/1	76	26.2	13.0	12.7	17.9	19
Fox Park	6H12	9200	2/27	33	8.5	4.1	1.4	7.2	19
Pole witn. #2*	5H1	8700	2/29	23	6.3	4.5	1.1		19
Libby Lodge	6н3	8700	3/2	44	12.1	5.3	5.9		18
Hairpin Turn	6H2	9500	3/1	46	13.8	5.5	6.0		18
Albany	6H11	9900	3/2	52	16.6	8.3	6.6	***	7
POUDRE RIVER									
Cameron Pass (a)	5J1	9400	3/3	72	24.2	13.0	11.7	16.7	.19
Chambers Lake	5J2	10300	3/1	38	11.3	6.2	2.5	7.2	19
Big South	5J3	8600	2/1	15	4.1	1.3	0.6	2.1	18
Deadman Hill (a)	516	10200	3/3	56	17.8	8.5	10.5	11.4	19
Lake Irene*	5J10	10600	3/1	81	27.1	12.7	13.2	17.8	18
Hour Glass Lake	5J11	9500	3/1	37	9.6	4.9	3.4	6.0	16
Red Feather	5J20	9000	2/28	34	\$.6	6.5	3.6		6
Lost Lake	5J23	9300	3/1	49	15.2	6.8	6.3	40.00	4

^{*}On adjacent drainage

^{**}Courses with less than 15 years record in period 1938-52 have all years prior to 1952 averaged.

(a) air observed

NS - No survey

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president (a)

March 1, 1956

March 1, 1956											
	Snow Cover Measurement										
Drainage Basin			195		Pas	Years					
and		Date of		Water	Water	Content		of			
Snow Course	Number Ele	Survey	Depth	Content			erage	Record			
			(In.)	(In.)	1955	1954, 19	38-52				
		PLATTE R	IVER DR	AINAGE				**			
BIG THOMPSON RIVER											
Lake Irene*	5110 1060		81	27.1	12.7	13.2	17.8	18			
Hidden Valley	5313 955		47	13.2	5.5	6.2	9.4	15			
Deer Ridge	5 J17 905	3/1	39	6.9	2.4	1.0		7			
Longs Peak	5J22 1050	2/26	51	14.1	3.9	5.0		5			
Two-Mile	5J26 1040	2/27	61	19.0	7.3	8.2		4			
ST. VRAIN RIVER											
Wild Basin	5J5 1000	3/1	51	16.8	5.4	8.2	11.1	19			
Copeland Lake	5J18 8600	3/1	23	6.8	2.1	2.2		7			
Ward	5J21 950	3/1	26	7.2.	2.1	4.7.		6			
						,					
BOULDER CREEK											
E. Port. Moffat T.	5K1 940	2/29	27	7.7	2.6	1.7	4.0	19			
University Camp	5J8 1030	2/28	64	19.8	14.4	12.6	16.7	18			
Moffat	5J12 940	2/29	41	13.8	4.5	3.5		6			
		·									
CIEAR CREEK							4				
Loveland Pass	5K5 1060	2/28	62	19.3	9.7	7.3	11.8	19			
Grizzly Peak*	5K9 1125		74	23.0	8.1.	9.7	15.2	14			
Empire	5K10 965		34	9.9	4.7 3.7		-	7			
Berthoud Falls	5K13 1050		53	17.2	9.0 7.4			5			
Clear Creek	5K17 1120		66	21.0	9.8 8.5		-	4			
		·									
SOUTH PLATTE RIVER											
Hoosier Pass	6K1 1140	0 2/28	50	14.4	9.0	8.5	9.3	19			
Fairplay	6K2 1000	0 2/28	9	1.9	2.7	0.0	1.0	18			
Jefferson Cr.	5K8 1010	0 2/28	41	10.0	6.7	7.0	6.9	16			
Geneva Park	5K11 975		16	4.0	3.1	1.2		6			
		·									
		ARKANS	SAS DRAI	INAGE							
ARKANSAS RIVER											
Tennessee Pass	6K2 1020	0 2/29	50	12.4	7.1	5.2	7.5	20			
Twin Lakes T.	6K3 1050	0 3/1	35	8.7	5.5	7.0	8.9	18			
La Veta Pass*	511 930		25	8.4	7.1	6.1	8.3	18			
4-Mile Park	6K7 970		19	4.2	4.2	2.8	3.5				
Fremont Pass	6K8 1140		64	18.2	8.6	9.8	12.9	20			
Monarch Pass	614 1050	0 2/29	59	18.7	10.8	9.9	14.5	14			
St. Elmo	6L5 1060	0 3/1	43	12.2	6.2	7.5		6			
Timberline	6K11 1110	0			NS	11.3		6			
Westcliffe	5L2 900		25	6.6	6.2	2.6	***	3			
Cooper Hill	6K16 1060		38	10.5	4.6	4.9	(-)(-)	3 3			
East Fork	6K17 1070		45	12.0	4.9	4.2		3			

⁽a) Air observed

^{*}On adjacent drainage

^{** -} Courses with less than 15 years record in period 1938-52 have all years prior to 1952 averaged.

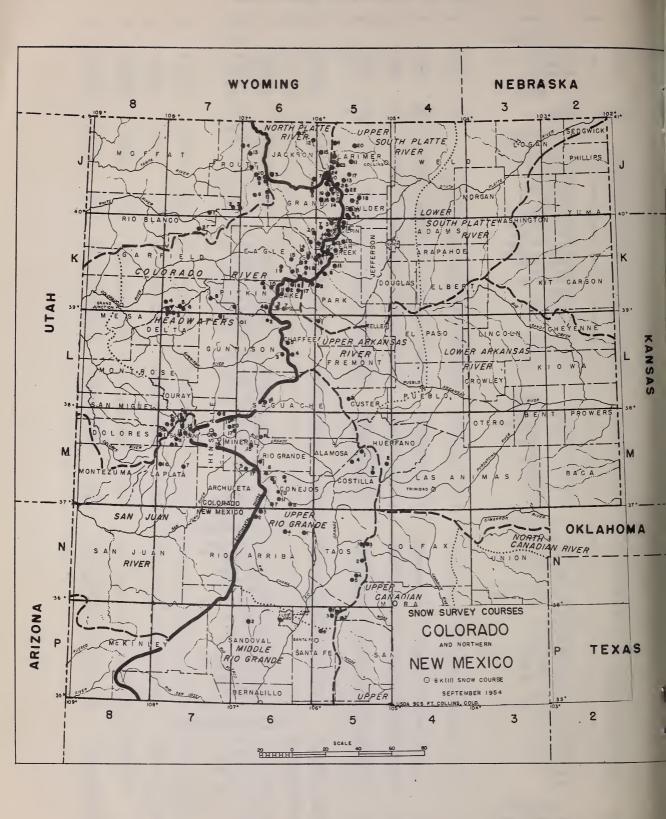
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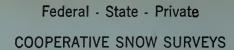
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LIST AND LOCATION OF SNOW COURSES

	-			11011)I DIVE) II O	Ounder				
No. State Name	Sec.	Twp.	Rge.	Elev.	No.	State	Name	Sec.	Twp.	Rge.	Elev.
North Platte							Yampa				
6J2 C Park View 6J3 C Columbine 6J7 C Northgate	24 21 8	5N 5N 11N	78W 82W 79W	9200 9300 8500	6J1 6J4 6J8 6J 9	0 0 0	Dry Lake Elk River Routt Line Rabbit Ears	26 6 13	7N 10N 5N 5N	85W 83W	8300 9300 9700
Laramie					6110	C	Yampa View	30 21	5N	87M 83M	9550 8500
6J12 C Roach	5 35	10N 10N	77W 76W	9800			White				
5J15 C McIntyre	37	TON	lou	9100	7K2	С	Burro Mountain	15	25	91W	9000
South Platte	. 2	(27	n/m	7,0000	7J1 6J13	C	Rio Blanco Clark	28 24	1N 9N	88W 85W	8500 7800
5J1 C Cameron Pass 5J2 C Chambers Lake	6	6N 7N 8N	76W 75W	10300 9000 8600	7 J2 7J3	C C	Flat Top Bear River	가 5년	IN IN	87W 86W	9500 9100
5J3 C Big South 5K1 C East Portal 6K1 C Hoosier Pass	33 2 13	2S 8S	75 W 74 W 78 W	9400 11400			Plateau Creek				
6K1 C Hoosier Pass 5K2 C Fairplay 5J5 C Wild Basin	33 24	9S 3N	77W 74W	10000	7KL 7K5	C	Mesa Lakes Trickle Divide	35 23	11S 11S	96W 94W	10000
5J6 C Deadman Hill 5J8 C University Camp	25 26	10N 1N	75W 73W	10200	(A)	0	Gunnison	2)	1110	7411	10000
5K5 C Loveland Pass 5J11 C Hour Glass Lake	27 18	ЦS 7N	76W 73W	10600 9500	6L1	С	Crested Butte	22	135	86W	9000
5K8 C Jefferson Creek 5J13 C Hidden Valley	11 ₄ 23	7 8 5N	76W 74W	10100 9550	6I2 7K3	C	Park Cone Alexander Lake	19	114S 12S	82W 95W	9700 10000
5J17 C Deer Ridge 5J18 C Copeland Lake	19 21	5N 3N	73W 73W	9050 8600	7M6 7K6	C	Ironton Park Park Reservoir	29 34	43N 11S	. W. Т. W. 19 9ЦW	9800 9500
5K10 C Empire 5K11 C Geneva Park	21 18	3S 6S	75W 7LW	9650 9750	6L3 7K7	Ċ	Porphyry Creek Kannah Creek	19	49N 12S	6E 95W	10800
5J20 C Red Feather 5K12 C Moffatt	26 2	10N 2S	74W 74W	9000 9400	7M8 7K8	C	Lake City McClure Pass	13 1	43N 11S	Ь₩ 89₩	10300 9500
5J21 C Ward 5K13 C Berthoud Falls	1 15	1N 3S	73W 75W	9500 10500	7M15 7K9	C	Red Mountain Ward Lake	13	42N 12S	8W 95W	11000 10000
5J22 C Longs Peak 5J23 C Lost Lake	32 32	Lin 8n	73W 75W	10500 9300	12		San Juan				
5K17 C Clear Creek 5J25 C Boulder Falls	28 26	14S 11N	76₩ 7 3 ₩	11200 10000	6м3	С	Upper San Juan	1	37N	1E	10000
5J26 C Two Mile	22	5N	74W	10500	7ML 7M5	C	Silverton Cascade	10 13	39N 71N	7₩ 9₩	9400 8850
Arkansas					7M7 7M1.0	C	Granite Peaks La Plata	23 4	37N 36N	11W	7950 9700
6K2 C Tennessee Pass 6K3 C Twin Lakes Tunne		8S 11S	80W 82W	10200 10500	7M11 7M12	C	Spud Mountain Molas Lake	32 7	70и 70и	8₩ '7₩	10700 10500
5M1 C LaVeta Pass 6K7 C Four Mile Park	22 23	28S 11S	70W WL8	9300 9700	7EM 7ME 3	C	Howardville Mineral Creek	12 35	75N 77N	7W 8W	9800 10300
5M2 C Blue Lakes 6LL C Monarch Pass	30 16	31S 49N	69W 6E	10000			Dolores				
615 C Saint Elmo 6K11 C Timberline	31 8 11 ₁	158 98 88	80W 81W 80W	10600 11100 10600	711	С	Rico	11	39N 42N	11W 8W	8700 8600
6K16 C Cooper Hill 6K17 C East Fork 512 C Westcliffe	15 19	8S 22S	79W 73W	10700	7M2 7M3 7M9	C	Telluride Lizzard Head Trout Lake	24 8	71N 71N	10W 9W	10300 9700
Upper Colorade		220	ייכו	7000	(111.)		o Grande (Colorad		٧٠٠٠	/"	7100
5J4 C Phantom Valley	7	5N	75W	9300	6MI.	C	Wolf Creek Pass		37N	2E	10000
5K3 C Berthoud Pass 5K4 C M. F. Camp Grow	35	2S 3S	75W 77W	9700 9000	7M16 6M4	C	Upper Rio Grand Silver Lakes		40N 36N	Д₩ 5Е	9350 9600
6K5 C Fiddler Gulch 5J7 C Lulu	1 25	8s 6N	80W 76W	11000	6м5 6м6	C	River Springs Summitville	25 30	33N 37N	6E 4E	9300 11500
6J5 C Willow Creek Pa 5J9 C N. Inlet Grand	ss 1	ŤИ	78W 75W	9500 9000	6M7 7M1.7	C	Cumbres Pass Santa Maria	17 8	32N 41N	5E 2W	10000 9700
5J10 C Lake Irene 5K6 C Arrow	8 34	5N 1S	75W 75W	10600 9900	5M3	C	Culebra Fort Garland	37.2N 13	105.2W 29N	72W	10000 8200
5K7 C Lapland 6K8 C Fremont Pass	16	2S 8S	79W 76W	9500 111,00	6M9 6M10	C	Platoro West Conejos	22 21	36N 34N	ЦE 5E	9950 9450
6J6 C Lynx Pass 6K9 C Shrine Pass	10 15	1N 6S	83W 79W	9100 10500	6M11 7M18	C	LaManga Pyramid	23 26	33N 41N	5E 5W	10000 10300
5K9 C Grizzly Peak 6K20 C Glen-Mar Ranch	2 31	5S 2S	76W 77W	11250 8850	7MI9	С	Spring Creek Pa Pool Table Mt.	ass 2 19	71N	3W 2E	10900 10000
5J14 C Monarch Lake 5J16 C Granby	30 11	2N 2N	74W 77W	8500 8700	6M15		Lake Humphrey Cochetopa Pass	32 12	40N 45N	1E 3E	9300 10000
5J19 C Grand Lake 5K14 C Berthoud Summit	. 30 10	ЦN 3S	75W 75W	8600 11300	7M20 6M1.7		Porcupine Wolf Creek Summ	2 mit 6	41N 37N	3W 2E	10400 11000
5K15 C Frazer View 6J11 C Gore Pass	34 2	2S 1N	75W 82W	10600 8900			Rio Grande (New 1	(exico)			
6K13 C Frisco 5K16 C Snake River	18 9	6S 5S	76W	9300 9700	5N1	NM	Red River	29	28N	15E	9500
6Kll C Summit Ranch 5J2L C Milner Pass	8 7	4s 5n	75W	10100	5N2 5P1	NM NM	Taos Canyon Aspen Grove	10 12	25N 18N	15E 10E	9000 9100
6K15 C Vail Pass 6K18 C Kokomo	28 23	5S 7S	79W	10000	5N3 5N4	MM MM	Hematite Park Tres Ritos	8 23	28N 22N	15E 13E	9500 9000
6K19 C Pando	10	78	80W	9500	6N1 6N2	MM MM	Payrole Chama Divide	16 36.9N	28N 106.7W	7E	9700 7750
Roaring Fork		22.0	9000	10700	6N3 5N5	NM NM	Chamita Cordova Panahuala	36.9N 28 27	106.7W 22N	13E 12E	8500 10100 8300
6KL C Ind. Pass Tunne 7KL C North Lost Trai	.1 20	115	87W		5P2 5P3	NM NM	Panchuela Big Tesuque	17	19N 18N 17N	11E 11E	10000 8250
6K6 C Nast 6K10 C Ivanhoe	1 12	9S 9S			5P4 5P5	NM NM	Elk Cabin Rio En Medio	8	18N	11E	10400
					6P1 6N4	NM NM	Quemazon Bateman	34 5	20N 26N	5E 6E	9300 9300
					6P2	MM	Fenton Hill	7	19N	3E	8900







Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"